

WQ STANDARDS

3 ESSENTIAL COMPONENTS

- DESIGNATED USES (DU)
 - Goal uses: “what do we (society) want to use the waters of the state for?” OR “What valuable things do we want waters to do?”
- CRITERIA TO SUPPORT THE USES
 - What are the measurable attributes of waters related to each DU, and what is the minimum acceptable value?
- ANTIDEGRADATION

New Hampshire Statutes

CHAPTER 485-A: WATER POLLUTION AND WASTE DISPOSAL

Section 485-A:1 Declaration of Purpose.

Section 485-A:2 Definitions.

Section 485-A:8 Standards for Classification of Surface Waters of the State.

Section 485-A:9 Classification Procedure.

Section 485-A:10 Reclassification Procedure.

Section 485-A:11 Public Waters Classified.

Section 485-A:12 Enforcement of Classification.

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

CHAPTER Env-Wq 1700 SURFACE WATER QUALITY REGULATIONS

485-A:8 Standards for Classification of Surface Waters of the State. – It shall be the overall goal that all surface waters attain and maintain specified standards of water quality to achieve the purposes of the legislative classification. For purposes of classification there shall be 2 classes or grades of surface waters as follows:

I. Class A waters shall be of the highest quality and shall contain not more than either a geometric mean based on at least 3 samples obtained over a 60-day period of 47 *Escherichia coli* per 100 milliliters, or greater than 153 *Escherichia coli* per 100 milliliters in any one sample; and for designated beach areas shall contain not more than a geometric mean based on at least 3 samples obtained over a 60-day period of 47 *Escherichia coli* per 100 milliliters, or 88 *Escherichia coli* per 100 milliliters in any one sample; unless naturally occurring. There shall be no discharge of any sewage or wastes into waters of this classification. The waters of this classification shall be considered as being potentially acceptable for water supply uses after adequate treatment.

II. Class B waters shall be of the second highest quality and shall have no objectionable physical characteristics, shall contain a dissolved oxygen content of at least 75 percent of saturation, and shall contain not more than either a geometric mean based on at least 3 samples obtained over a 60-day period of 126 *Escherichia coli* per 100 milliliters, or greater than 406 *Escherichia coli* per 100 milliliters in any one sample; and for designated beach areas shall contain not more than a geometric mean based on at least 3 samples obtained over a 60-day period of 47 *Escherichia coli* per 100 milliliters, or 88 *Escherichia coli* per 100 milliliters in any one sample; unless naturally occurring. There shall be no disposal of sewage or waste into said waters except those which have received adequate treatment to prevent the lowering of the biological, physical, chemical or bacteriological characteristics below those given above, nor shall such disposal of sewage or waste be inimical to aquatic life or to the maintenance of aquatic life in said receiving waters. The pH range for said waters shall be 6.5 to 8.0 except when due to natural causes. Any stream temperature increase associated with the discharge of treated sewage, waste or cooling water, water diversions, or releases shall not be such as to appreciably interfere with the uses assigned to this class. The waters of this classification shall be considered as being acceptable for fishing, swimming and other recreational purposes and, after adequate treatment, for use as water supplies. Where it is demonstrated to the satisfaction of the department that the class B criteria cannot reasonably be met in certain surface waters at all times as a result of combined sewer overflow events, temporary partial use areas shall be established by rules adopted under RSA 485-A:6, XI-c, which meet, as a minimum, the standards specified in paragraph III.

[illegible]

STATE OF NEW HAMPSHIRE

**2010 Section 305(b) and 303(d)
Consolidated Assessment
and Listing Methodology**

February, 2010





AUIDs for HUC12: 010700060102 - BOSCAWEN-CANTERBURY TRIBUTARIES



WATERSHED 305(b) ASSESSMENT SUMMARY REPORT:

HUC 12 010700060102

HUC 12 NAME BOSCAWEN-CANTERBURY TRIBUTARIES

(Locator map on next page only applies to this HUC12)

Assessment Cycle 2008

Good	Full Support Good
Marginal	Full Support Marginal
Likely Good	Insufficient Information - Potentially Full Support
No Data	No Data
Likely Bad	Insufficient Information - Potentially Not Support
Poor	Not Support Marginal
Not Data	Not Support Not Data



ASSESSMENT UNIT ID	MAP LABEL	ASSESSMENT UNIT NAME	AQUATIC LIFE	SWIMMING	BOATING	FISH CONSUMP.
NHIMP700060102-01	I*01	TANNERY BROOK	3-ND	3-ND	3-ND	ND-ND
NHIMP700060102-02	I*02	COLD BROOK	3-ND	3-ND	3-ND	ND-ND
NHLAK700060102-01	L*01	FOREST POND	3-ND	3-ND	3-ND	ND-ND
NHLAK700060102-02	L*02	THE CHANNEL	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-01	R*0102-01	MERRIMACK RIVER	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-02	R*02	MERRIMACK RIVER	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-03	R*03	GLINES BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-04	R*04	UNNAMED BROOK - TO MERRIMACK RIVER	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-05	R*05	TANNERY BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-06	R*06	TANNERY BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-07	R*07	TANNERY BROOK - COLD BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-08	R*08	FOREST POND BROOK - UNNAMED BROOKS THRU BIG MEADOW MARSH	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-09	R*09	BRYANT BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-10	R*10	COLD BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-11	R*11	COLD BROOK	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-12	R*12	UNNAMED BROOK - TO UNNAMED POND	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-13	R*13	UNNAMED BROOK - FROM UNNAMED POND TO MERRIMACK RIVER	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-14	R*14	UNNAMED BROOKS - FROM UNNAMED PONDS TO MERRIMACK RIVER	3-ND	3-ND	3-ND	ND-ND
NHRIV700060102-15	R*15	MERRIMACK RIVER	3-PAS	2-N	2-N	ND-ND
NHRIV700060302-23	R*23	MERRIMACK RIVER	3-ND	2-N	3-ND	ND-ND

Assessment Unit ID NHRIV700060102-15
 Assessment Unit Name MERRIMACK RIVER
 Primary Town CANTERBURY

Size 6.9200 MILES
 Reach N
 Assessment Unit Category*- 3-PAS

2008, 305(b)/303(d) - All Reviewed
 Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Parameter Category*	TMDL Schedule	Expected To Attain Date	Source Name (Impairments only)
Aquatic Life	3-PAS		Ammonia (Unionized)	N	3-PAS			
			Benthic-Macroinvertebrate Bioassessments (Streams)	N	3-ND			
			Dissolved oxygen saturation	N	3-ND			
			Fishes Bioassessments (Streams)	N	3-ND			
			Oxygen, Dissolved	N	3-ND			
			pH	N	3-ND			
Drinking Water After Adequate Treatment	2-G							
Fish Consumption	4A-M		Mercury	N	4A-M	2017		Atmospheric Deposition - Toxics
Primary Contact Recreation	2-M		ESCHERICHIA COLI	N	2-M			
Secondary Contact Recreation	2-M		ESCHERICHIA COLI	N	2-M			
Wildlife	3-ND							

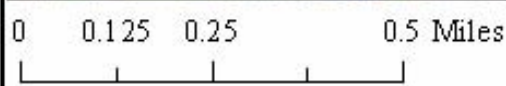
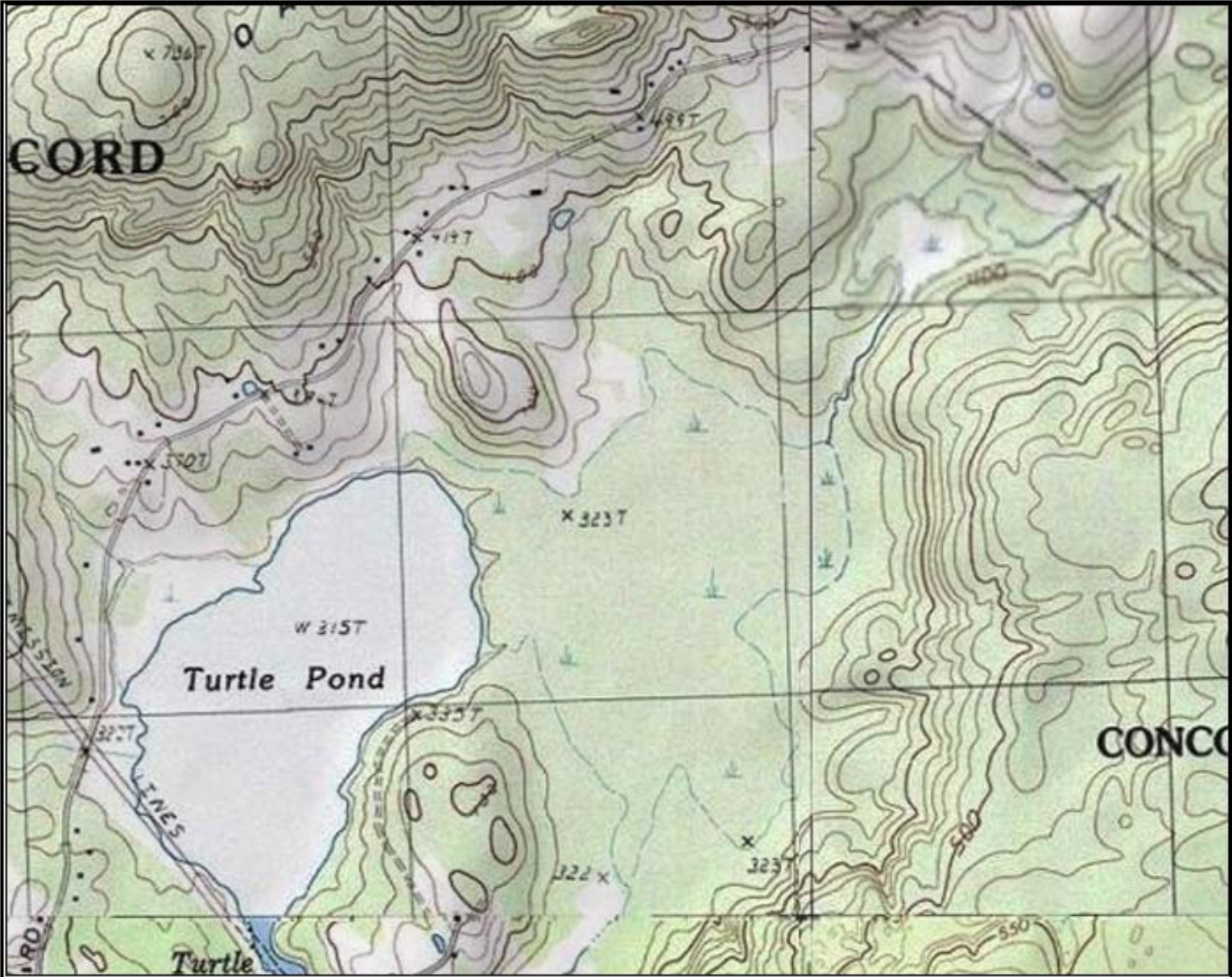
Severe	Poor	Likely Bad	No Data	Likely Good	Marginal	Good	
Not Supporting, Severe	Not Supporting, Marginal	Insufficient Information - Potentially Not Supporting	No Data	Insufficient Information - Potentially Full Supporting	Full Support, Marginal	Full Support, Good	

*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure with rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginally Impairment, P=Severe Impairment, T=Threatened (<http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm>)

Page 14 of 20

Date: 2/6/09

USGS 7.5 Minute Topographic Map



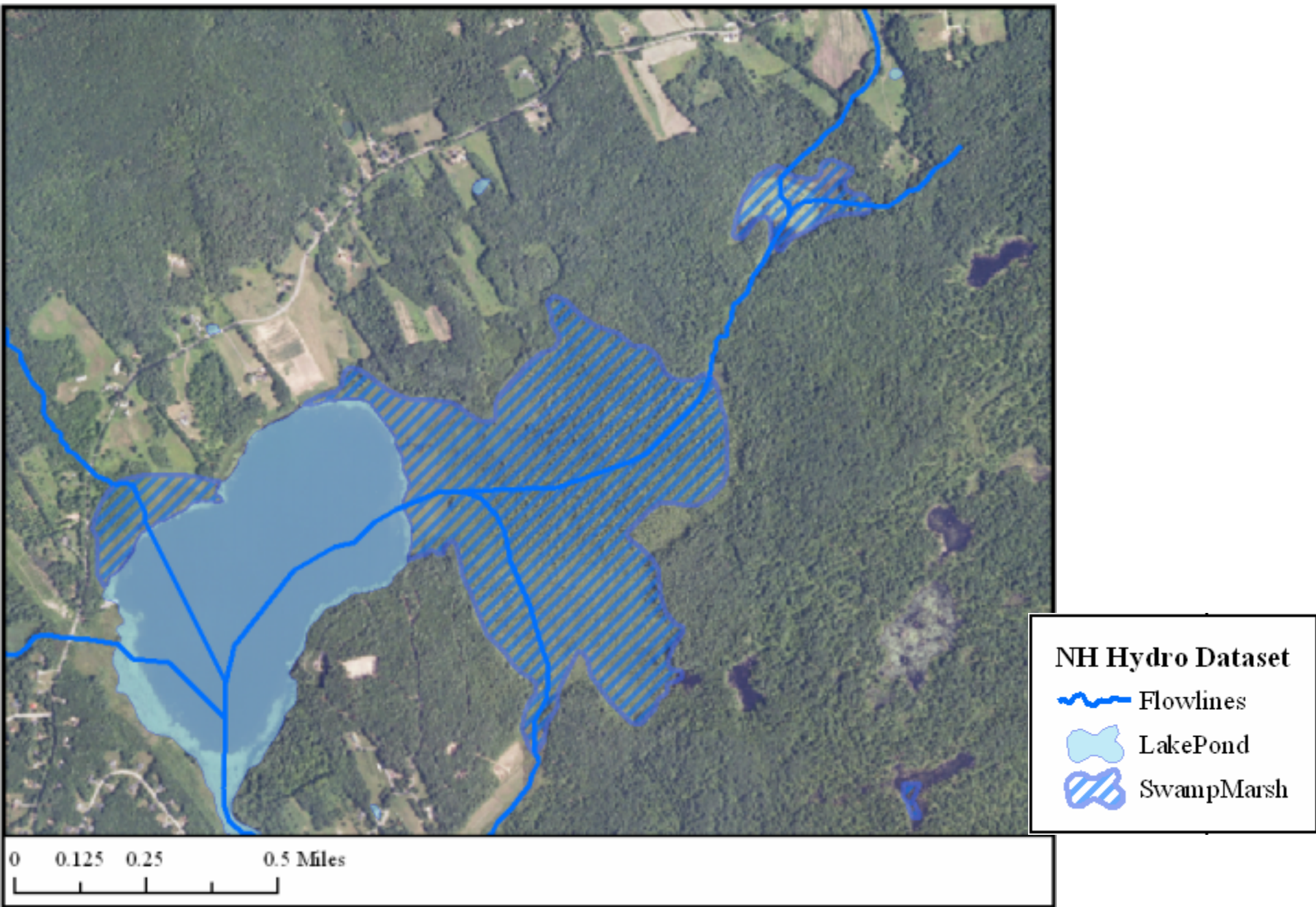
2009 National Agricultural Imagery Program



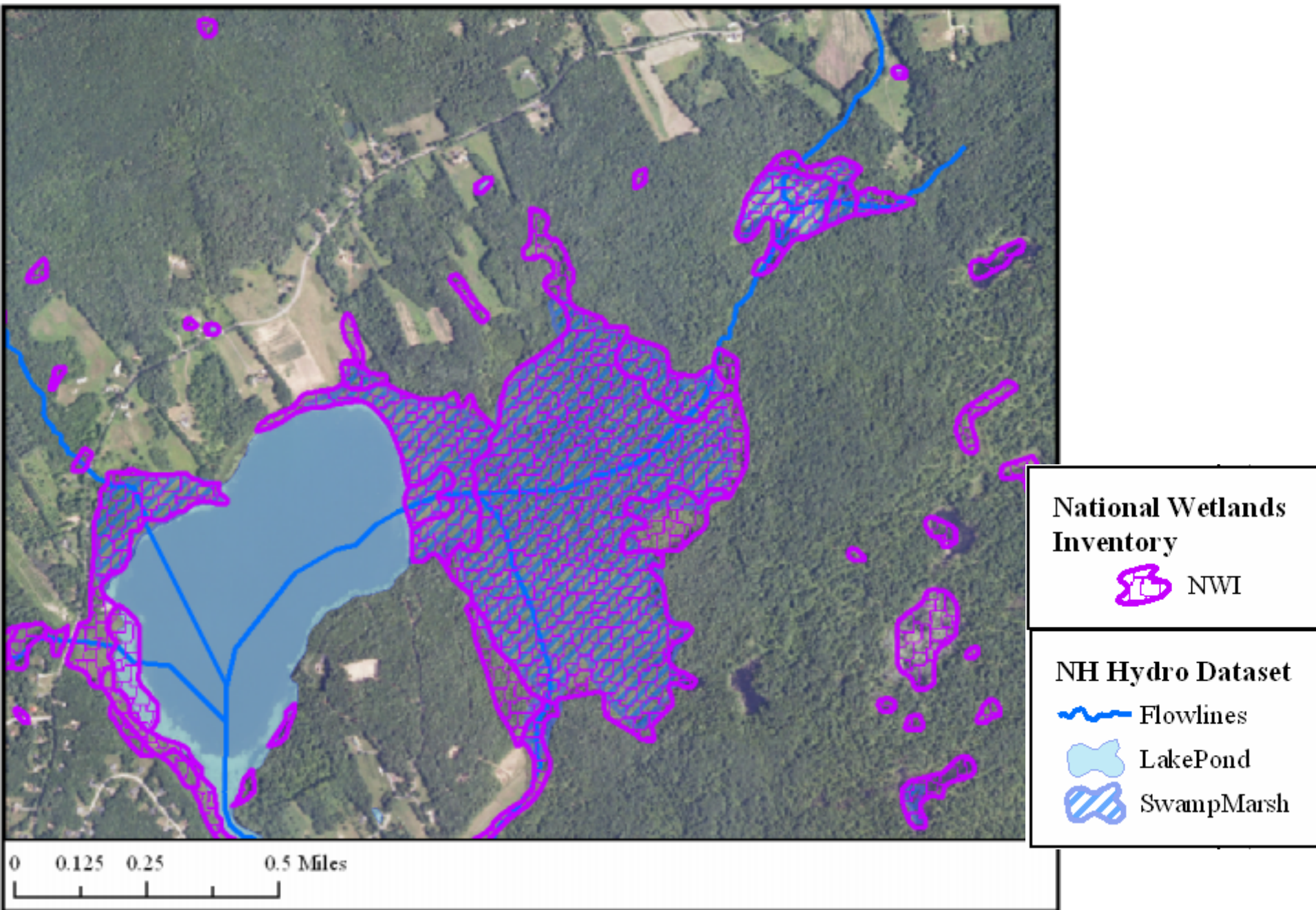
0 0.125 0.25 0.5 Miles



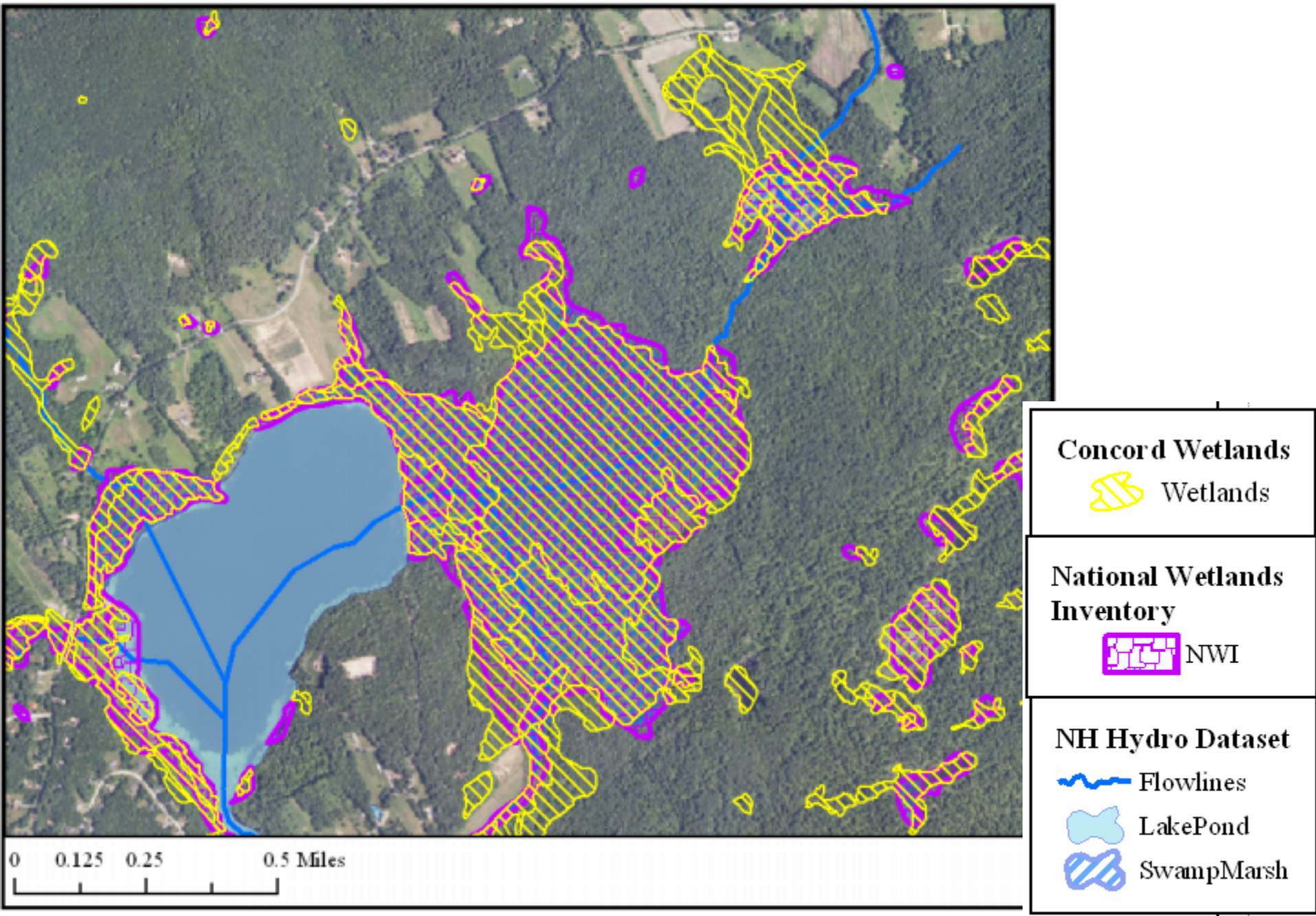
Overlay the 1:24,000 New Hampshire Hydrography Dataset

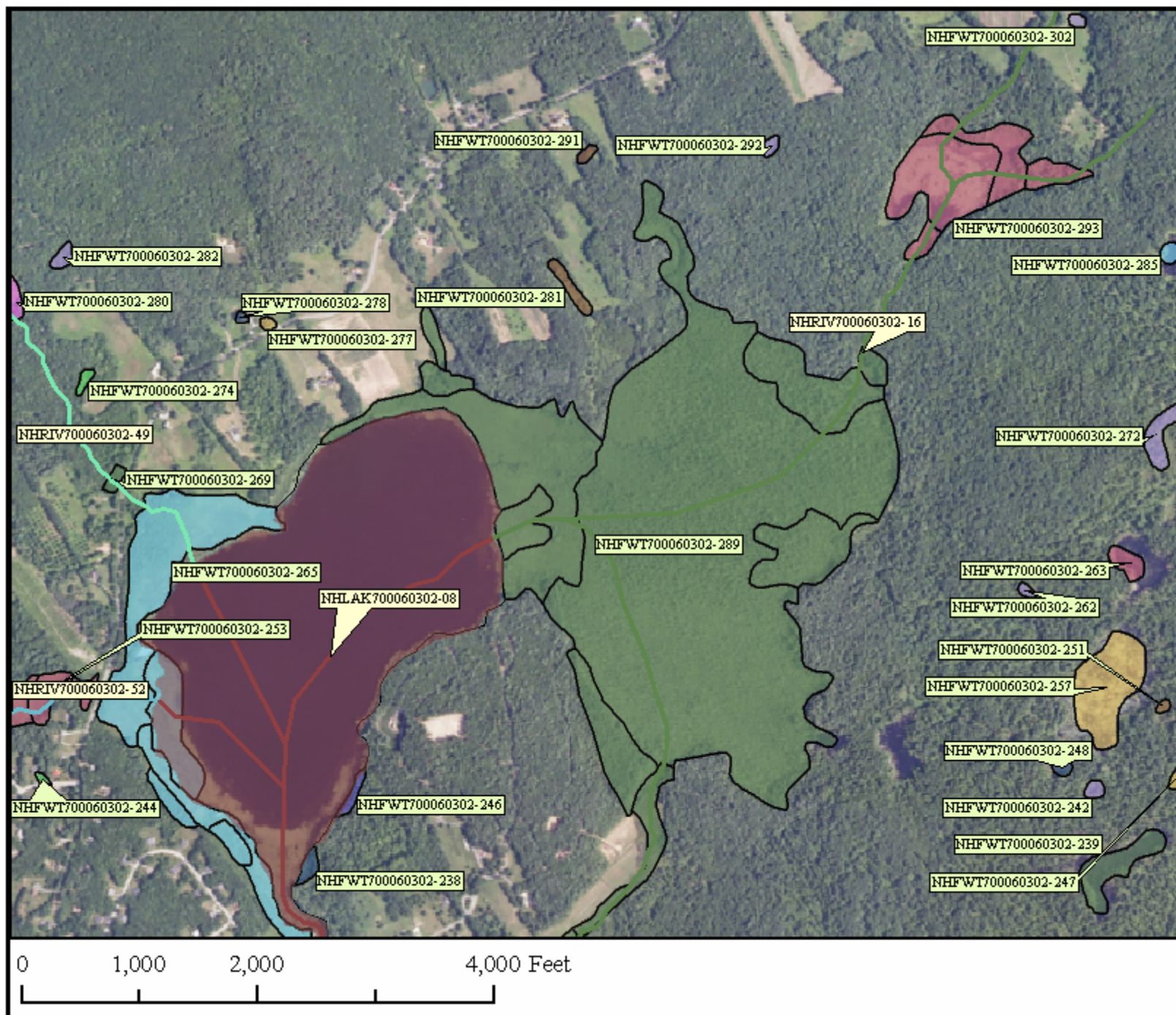


Overlay the National Wetlands Inventory



Overlay Concord's detailed wetlands mapping, photo interpreted at 1:7,200, field verified.





ONE IDEA FOR A MATRIX OF DESIGNATED USES AND SUBCLASSES

AQUATIC LIFE	SWIMMING	BOATING	DRINKING WATER SUPPLY	FISH CONSUMPTION	SHELLFISH CONSUMPTION	WILDLIFE	GEOMORPHIC INTEGRITY
Natural	Frequent	Frequent	Source Water	Fishing possible	Shellfishing possible	Natural	Natural
Rural	Occasional	Occasional	Potential Source Water	Not Fish Habitat	Not Shellfish Habitat	Rural	Managed
Community	Rare	Rare	No Water Supply Potential			Community	
Urban						Urban	